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CONFIRMATION NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 08/10/2004 10/849,683 Carl Andrew Reis P217CIP 7546 EXAMINER 7590 06/24/2005 LOUIS L. DACHS STAICOVICI, STEFAN 1794 PALISADES DRIVE ART UNIT PAPER NUMBER PACIFIC PALISADES, CA 90272 1732

DATE MAILED: 06/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		VV
	Application No.	Applicant(s)
Office Action Summary	10/849,683	REIS ET AL.
	Examiner	Art Unit
	Stefan Staicovici	1732
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, ma reply within the statutory minimum of od will apply and will expire SIX (6) I tute, cause the application to becom	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. a ABANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on <u>0</u>	1 June 2005.	
2a)☐ This action is FINAL . 2b)⊠ T	his action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4) ☐ Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are without 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	drawn from consideration.	
Application Papers		
9) The specification is objected to by the Examiner.		
10) The drawing(s) filed on 20 May 2004 is/are: a) accepted or b) objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		·
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	ents have been received. ents have been received priority documents have been (PCT Rule 17.2(a)).	in Application No een received in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date <u>5/20/04</u>.) Paper 5/08) 5) Notice	iew Summary (PTO-413) No(s)/Mail Date e of Informal Patent Application (PTO-152)
II S. Patent and Trademark Office		

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Species A in the reply filed on June 1, 2005 is acknowledged. However, in view of Applicants' response the election requirement mailed May 13, 2005 is withdrawn.

Claims 1-11 are pending in the instant application.

Specification

- 2. The abstract of the disclosure is objected to because of minor informalities:
 - on page 13, line 7, "(036)" should be deleted;
 - on page 13, line 12, ")2" should be replaced with --2)--;

Correction is required. See MPEP § 608.01(b).

- 3. The disclosure is objected to because of the following informalities:
 - on page 6, line 24, after "then", "place" should be replaced with --placed--;
 - on page 7, line 6, it is unclear to which "Figures" Applicants are referring;
 - on page 7, line 15, "potion" should be replaced with --portion--;
 - on page 8, line 10, after "such", --that-- should be inserted.

 Appropriate correction is required.

Drawings

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "32" has been used to designate both a "receiver pad" (page 6, line 25) and

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"staggered blades" (page 6, line 26). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Double Patenting

5. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See Miller v. Eagle Mfg. Co., 151 U.S. 186 (1894); In re Ockert, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

- 6. Claims 7-11 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-5 of copending Application No. 10/779,901. This is a <u>provisional</u> double patenting rejection since the conflicting claims have not in fact been patented.
- 7. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686

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F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

8. Claims 1-6 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-5 of copending Application No. 10/779,901. Although the conflicting claims are not identical, they are not patentably distinct from each other because Claims 1-5 of copending Application No. 10/779,901 teach a process for forming a 3D woven pi shaped preform, whereas Claims 1-6 of the instant application are drawn to the genus of a fiber woven preform. It is submitted that a 3D woven pi shaped preform is a fiber woven preform.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 10. Claims 1-5 are rejected under 35 U.S.C. 102(a) as being anticipated by McKague, Jr. et al. (US Patent No. 6,553,734 B1).

Regarding claim 1, McKague, Jr. et al. ('734) teach the claimed process for making a

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preform for use in a composite structure including, providing a fiber sheet (11) having fibers oriented in a specific direction of uniform or variable length, wherein said fiber length (15) are defined by slits (17) in a direction perpendicular to said fibers, said slits (17) being spaced apart from slits in an adjacent row (see Figure 1), cutting said sheets (11), stacking said sheets (11) in an integrated layer (21), forming said integrated layer in a sinusoidal shaped mold (41) such that stretching of the material occurs to thereby enhance deformability and shaping of the material (see col. 3, lines 1-58).

In regard to claim 2, McKague, Jr. et al. ('734) teach that a fiber sheet (11) having fibers oriented in a specific direction of uniform or variable length (woven sheet).

Specifically regarding claims 3-5, McKague, Jr. et al. ('734) teach forming slits (17) in a direction perpendicular to said fibers, shaping said integrated layer (21) in a sinusoidal shaped mold (41) such that stretching of the material occurs to thereby enhance deformability and shaping of the material (see col. 3, lines 1-58). Further, it is noted that a sinusoidal shape includes a curvature.

Claim Rejections - 35 USC § 103

- 11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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12. Claims 6-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over McKague, Jr. et al. (US Patent No. 6,553,734 B1) in view of McKague, Jr. et al. (US Patent No. 6,520,706 B1).

McKague, Jr. et al. ('734) teach the basic claimed process as described above.

Regarding claims 6-10, McKague, Jr. et al. ('734) do not teach a pi-shaped preform. McKague, Jr. et al. ('706) teach a pi-shaped preform (11) (foot portions and leg portions) that has been shaped in a sinusoidal manner (see Figure 6A). Therefore, it would have been obvious for one of ordinary skill in the art to have formed a pi-shaped preform as taught by McKague, Jr. et al. ('706) using the process of McKague, Jr. et al. ('734) because, McKague, Jr. et al. ('734) specifically teaches that by forming slits the deformability of the preform improves, hence resulting in an improved process and also because a sinusoidal shaped preform provides for improved mechanical properties.

In regard to claim 11, it is submitted that the leg portions must be overlapped over the foot portions in order to obtain a common radius of curvature for said leg and foot portions as shown in Figure 6A of McKague, Jr. *et al.* ('706).

Conclusion

- 13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stefan Staicovici, Ph.D. whose telephone number is (571) 272-1208. The examiner can normally be reached on Monday-Friday 9:30 AM to 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Colaianni, can be reached on (571) 272-1196. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stefan Staicovici, PhD

Primary Examiner

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June 22, 2005